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DIALOG(R)File 351: Derwent WPI

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**Flame-retarding compsn. for plastic tubes - comprises chlorinated polyethylene, plasticiser and inorganic filler**

Patent Assignee: HITACHI CABLE LTD (HITD)

Patent Family: 2 patents, 1 countries

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JP 59127749	A	19840723	JP 19833058	A	19830112	198435	B
JP 1990019786	B	19900507	JP 19833058	A	19830112	199022	E

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Patent Details					
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JP 59127749	A	JA	3	1	

**Alerting Abstract JP A**

Flame-retarding plastic tube is prepd. by coating its outer surface with a flame-retarding compsn. comprising flame-retarding plasticiser and 45-75 wt.% inorganic filler and having oxygen index at least 30.

The plastic tube is pref. of polyethylene bellows type having melt index up to 0.3 or polypropylene having melt flow rate of up to 5. The chlorinated polyethylene pref. contains 30-40 wt.% Cl.

The flame-retarding plasticiser is pref. chlorinated paraffin opt. blended with Sb<sub>2</sub>O<sub>3</sub> or tricresyl phosphate or tris-beta-chlorostyryl phosphate.

The inorganic filler is pref. Al<sub>2</sub>O<sub>3</sub> Al(OH)<sub>3</sub> Mg or Al silicate, SiO<sub>2</sub>, Zn borate or phosphate frit. Opt. the compsn. is blended with colourant, stabiliser and/or process oil.

In an example, high density polyethylene having density 0.95 and melt index 0.04 was extruded to provide a bellows tube having outer dia. 127 mm, thickness 2.5 mm and height of crest 13 mm. The tube was coated with a flame-retarding compsn. comprising 35% chlorinated polyethylene contg. 40% Cl, 10% chlorinated paraffin, 1% epoxidised soybean oil, 2% Sb<sub>2</sub>O<sub>3</sub>, 0.5% carbon black, 2% paraffin, 10% Zn borate and 34.5% clay and having oxygen index of 38. ADVANTAGE - The plastic tube has high flame-retarding activity and can carry conductor wires or cable.

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